

1635

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/490,609B DATE: 03/27/2001
 TIME: 07:45:50

Input Set : A:\3170SeqList.txt
 Output Set: N:\CRF3\03272001\I490609B.raw

1 <110> APPLICANT: Bunch, Roderick T.
 2 Morris, Dale L.
 3 Curtiss, Sandra W.
 4 Rodi, Charles P.
 6 <120> TITLE OF INVENTION: BIOMARKERS AND ASSAYS FOR CARCINOGENESIS
 8 <130> FILE REFERENCE: 3170/00/PCT
 10 <140> CURRENT APPLICATION NUMBER: US/09/490,609B
 11 <141> CURRENT FILING DATE: 2000-01-25
 13 <150> PRIOR APPLICATION NUMBER: US 60/118 078
 14 <151> PRIOR FILING DATE: 1999-01-29
 16 <160> NUMBER OF SEQ ID NOS: 580
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 271
 21 <212> TYPE: DNA
 22 <213> ORGANISM: *Fattus norvegicus*
 24 <400> SEQUENCE: 1
 25 gatccaccta acaagaaccc caaatgttac acgttcggctt ttgccttgtaa tgattttgtta 69
 28 ctgcgggtt qccagcgctt qtcttgtata aatgtggaaa tqaactacat qtttttatgg 120
 30 aaaaaaaa tattttttata atcatcaaaat ttataacttgc tatctgggtt ttagccatatae 180
 32 tagtttattat gagtctatggaa taatttttac atatttttat attattgtttc tctcaatgg 240
 34 tqaaatggatg qaaaacaatc atgtttttttt a 271
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 206
 39 <212> TYPE: DNA
 40 <213> ORGANISM: *Fattus norvegicus*
 42 <400> SEQUENCE: 2
 44 gatccaaqac ctcgtgttac tccgttgtaa tttttttttt cagttttttttt cccqaaqctt 60
 46 cccqaaqctt ctgtttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 48 tactttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 50 tqaaatggatg ctgtttttttt tttttttttt 206
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 74
 55 <212> TYPE: DNA
 56 <213> ORGANISM: *Fattus norvegicus*
 58 <400> SEQUENCE: 3
 60 gatccatgtt acgtttttttt agatttttttt tttttttttt tttttttttt tttttttttt 60
 62 cttttttttt tttttttttt 74
 65 <210> SEQ ID NO: 4
 66 <211> LENGTH: 207
 67 <212> TYPE: DNA
 68 <213> ORGANISM: *Fattus norvegicus*
 70 <400> SEQUENCE: 4
 72 gatccatgtt caaaatatac cttttttttt tttttttttt tttttttttt tttttttttt 60
 74 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 76 gatccatgtt cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 78 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 207
 81 <210> SEQ ID NO: 5

ENTERED

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161 <223> OTHER INFORMATION: unsure at all n locations
 163 <400> SEQUENCE: 9
 165 qatcataaaq ttcttttcuqc aacaaqtctt tcaatgttggq qgctaaactt aaataatgttq 60
 W--> 167 accatgtang acagagtaaa gggcaggagg tgaatttagag aagaagttgg aattggtctg 120
 169 cccatata
 172 <210> SEQ ID NO: 10
 173 <211> LENGTH: 400
 174 <212> TYPE DNA
 175 <213> ORGANISM: Rattus norvegicus
 177 <220> FEATURE
 178 <221> NAME/KEY: unsure
 179 <222> LOCATION: (1)..(400)
 180 <223> OTHER INFORMATION: unsure at all n locations
 182 <400> SEQUENCE: 10
 84 qatcataaaq qatgttggq tcaatgttca ttcgtatatt ccaatattt cggacaat 60
 W--> 186 cttctgcac ttttagttgg gttcacccaa gagttatctc tctatggcg gtcctgtcg 120
 188 tacttctgtt aaaaatcaacttq tttttttttt qaaaggagaga ctccatgttq aataatgtt 180
 190 acttttttttcaatataatcaa acaatgttgc ctccatgttq tttttttttt qaaaggagaa 240
 192 atccatgttq aaaaaatcaatataatcaa acaatgttgc ctccatgttq acaatgtt 300
 194 ttttttttttcaatgttgc acaatgttq acaatgttgc aatctgttgc aatctgttgc aatctgttgc 360
 196 aaaaaatcaatgttgc atggccatgg aatctgttgc aatctgttgc aatctgttgc aatctgttgc 400
 199 <210> SEQ ID NO: 11
 200 <211> LENGTH: 57
 201 <212> TYPE DNA
 202 <213> ORGANISM: Rattus norvegicus
 204 <400> SEQUENCE: 11
 206 qatcataaaaatctctgttca gacttttttca atttttttttt qatgttcaatq aatattt 57
 209 <210> SEQ ID NO: 12
 210 <211> LENGTH: 231
 211 <212> TYPE DNA
 212 <213> ORGANISM: Rattus norvegicus
 214 <220> FEATURE
 215 <221> NAME/KEY: unsure
 216 <222> LOCATION: (1)..(231)
 217 <223> OTHER INFORMATION: unsure at all n locations
 219 <400> SEQUENCE: 12
 221 qatccccaaqt ttcatcaatq tccctgttgc ttctgttgcac actctttgggc tggacaaqac 60
 W--> 223 tcctggaaac atttcaaaaat atcaatnccc ttacccctgcc ctcccttggg gtccacctgg 120
 225 ttcttcacatq agatttttca aaaaatgttgc tttttttttt qatgttcaatq aatctgttgc 180
 227 qatccccaaat ttccatcaatq tccctgttgc ttctgttgcac actctttgggc tggacaaqac 231
 230 <210> SEQ ID NO: 13
 231 <211> LENGTH: 295
 232 <212> TYPE DNA
 233 <213> ORGANISM: Rattus norvegicus
 235 <220> FEATURE
 236 <221> NAME/KEY: unsure
 237 <222> LOCATION: (1)..(295)
 238 <223> OTHER INFORMATION: unsure at all n locations
 240 <400> SEQUENCE: 13

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242	gatccacaaq	catagttgc	ttttqaacaa	cacaatgtgc	tgcacatgtt	quaacaccaa	60
244	cacgtgtca	taaqaaacaaq	atagtggca	ggccatgc	aaaccttca	tttccaaqq	120
W--> 246	ctaaataggc	caccaactga	cacgaaaatg	gtgccaaagn	tctactacag	cactgctaag	180
248	aaaaacaaqc	tqaqaaaccc	ataqatctt	aaaccttgc	aaatggat	aaatcttcaa	240
250	ctggatcc	atqaaacaa	ataqgaga	gttgtttgtc	tcttttgc	tttttgcac	295
253	<210>	SEQ ID NO:	14				
254	<211>	LENGTH:	188				
255	<212>	TYPE:	DNA				
256	<213>	ORGANISM:	Rattus norvegicus				
258	<400>	SEQUENCE:	14				
260	gatccacaaq	ggccggatca	aaaccttgc	tgtacttc	ggatccctt	cacaatgtgc	60
262	ctgtatgtt	gttgttgg	aaatggat	atgttttgc	aaatgtgt	atqaafttgc	120
264	aaatggat	aaatggat	tttgcacaa	ataqactgc	tttgcctt	ggccaaacttc	180
266	tttttttt						188
269	<210>	SEQ ID NO:	15				
270	<211>	LENGTH:	194				
271	<212>	TYPE:	DNA				
272	<213>	ORGANISM:	Rattus norvegicus				
274	<400>	SEQUENCE:	15				
276	gatcccttt	catagttgc	ccccatgttc	atttqattgc	ccgttttgtt	ccatgttqgt	60
278	atqaaatgg	atqgttggca	atatacgaga	accatgtttt	cttcaggac	actttctgtg	120
280	ctgggtttgt	aaatggatgtc	atqatcaga	taggtgtcg	cttcgttaca	ctatgttttc	180
282	aaaaatgtgg	tttgcacaa	tttttttt				194
285	<210>	SEQ ID NO:	16				
286	<211>	LENGTH:	164				
287	<212>	TYPE:	DNA				
288	<213>	ORGANISM:	Rattus norvegicus				
290	<220>	FEATURE					
291	<221>	NAME, KEY:	unsure				
292	<222>	LOCATION:	(1)..(164)				
293	<223>	OTHER INFORMATION:	unsure at all n locations				
295	<400>	SEQUENCE:	16				
W--> 297	gatccngact	gagaagagtn	tcaacacggt	cccctacata	gtgggctca	acaagcaaga	60
299	tttttttttt	atcatccaa	ccatgtatgg	aaatcttact	tcttgcggca	aaatgtatgt	120
301	aaaaatgtgg	atqatcata	tttttttttt	tttttttttt	tttttttttt	tttttttttt	164
304	<210>	SEQ ID NO:	17				
305	<211>	LENGTH:	43				
306	<212>	TYPE:	DNA				
307	<213>	ORGANISM:	Rattus norvegicus				
309	<220>	FEATURE					
310	<221>	NAME, KEY:	unsure				
311	<222>	LOCATION:	(1)..(43)				
312	<223>	OTHER INFORMATION:	unsure at all n locations				
314	<400>	SEQUENCE:	17				
W--> 316	gatccctgg	atgccttaga	tcaatgnat	gactatgaca	tta		43
319	<210>	SEQ ID NO:	18				
320	<211>	LENGTH:	426				
321	<212>	TYPE:	DNA				
322	<213>	ORGANISM:	Rattus norvegicus				

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/490,609B

DATE: 03/27/2001
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Input Set : A:\3170SeqList.txt
 Output Set : N:\CRF3\03272001\I490609B.raw

L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
 L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
 L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
 L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
 L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
 L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
 L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
 L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
 L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
 L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
 L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
 L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
 L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
 L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
 L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
 L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
 L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
 L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
 L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
 L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
 L:936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
 L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
 L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
 L:957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
 L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
 L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
 L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
 L:980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
 L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
 L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
 L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
 L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
 L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
 L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
 L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
 L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
 L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
 L:1058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
 L:1060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
 L:1075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
 L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

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L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60